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ATTORNEY DOCKET NO. APPLICATION NO. FIRST NAMED INVENTOR CONFIRMATION NO. FILING DATE 09/740,954 12/21/2000 Huang Lei Q62391 10/02/2003 **EXAMINER** SUGHRUE, MION, ZINN DESIRE, GREGORY M MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, N.W. Washington, DC 20037-3202 ART UNIT PAPER NUMBER 2625 DATE MAILED: 10/02/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Cargony M. Desire   Des	
Signature of the special category of the section o	LEI, HUANG
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CFR 1.35(a). In no event, however, may a reply be timely filled states and the provision of 37 CFR 1.35(a). In no event, however, may a reply be timely filled states and the provision of 37 CFR 1.35(a). In no event, however, may a reply be timely filled states and the provision of 37 CFR 1.35(a). In no event, however, may a reply be timely filled states and the provision of 37 CFR 1.35(a). In no event, however, may a reply be timely filled states and the provision of	
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THE MAILING DATE OF THIS COMMUNICATION.  - Estractions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTH'S from the mailing date of this communication.  - If the period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTH'S from the mailing date of this communication.  - Failure to reply within the sot or adended period for reply will, by statule, cause the application to become ABANDONEO (36 U.S. C. § 130).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any seared partent term adjustment. See 37 CFR 1.704(b).  Status  1) Responsive to communication(s) filed on 21 December 2000.  2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-23 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) is/are allowed.  6) Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on 21 December 2000 is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. § 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) N	;
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<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>	е
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application	ication).
<ul> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> <li>15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>	
Attachment(s)	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3. 4) Interview Summary (PTO-413) Paper No(s) Notice of Informal Patent Application (PTO-152) 6) Other:	

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-2, 7-8, 12-14, 19-20 and 22-23 are rejected under 35 U.S.C. 102(e) as being anticipated by Martinez (6,483,932).

Regarding claims 1 and 13 Martinez discloses,

Mean for obtaining information of changes in gray level value between those of said plurality of images thus picked up(note fig. 3b block 314, cites obtaining pixel difference interpreted as changes in gray level value); and

Means for deciding a timing at which at least one of said plurality of images is to be selectively extracted among those picked up images (note fig. 3c, capturing image frame)

Regarding claims 2 and 14 Martinez discloses,

Changed image information obtaining means is configured so as to compare said gray level value of each one and same pixels of each one of said plurality of image with

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each other, and thereby obtaining a number of pixels in one of said image, said gray level value of which are increased and decreased from those of one and same pixels of other image and a number of pixels in one of said image (note fig. 3C block 320, performs comparing functions based on changed information).

Regarding claims 7 and 19 Martinez discloses,

Wherein said pluralities of images are two successive images, which have been picked up by, said image pick-up apparatus successively (note col. 5 line 65- col. 6 line 4). Series of slices denote successive images.

Regarding claims 8 and 20 Martinez discloses,

Wherein a first image among said plurality of successive image consist a first frame and a second image among said plurality of successive image consists a second frame (note col. 6 lines 5-10).

Regarding claims 12 and 23 Martinez discloses,

Wherein said image processing comprising a fingerprint image data processing (note fig. 1).

Regarding claims 22 Martinez discloses,

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Comparing a gray level value of each of one of said pixels of said first frame image is compared with a gray level value of each of one and same pixel of said second frame of said second image (note fig. 3c block 320).

### Allowable Subject Matter

- 3. Claims 3-6, 9-11,15-18 and 21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. The following is a statement of reasons for the indication of allowable subject matter: Regarding claims 3, 5, 15 and 17, further limiting of timing deciding means is not taught in the prior art.

Regarding claims 4, 6, 16 and 18, claims include timing deciding means including comparison of absolute value of difference.

Regarding claims 9 and 21, claims further limit the invention to include first memory, second memory, data processing, pixel number counting means and timing deciding means. Claims 10 and 11 are dependent on claim 9.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory M. Desire whose telephone number is (703)

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308-9586. The examiner can normally be reached on M-F (8:30-6:00) Second Monday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta can be reached on (703) 308-5246. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

Gregory M. Desire Examiner Art Unit 2625

G.D. September 21, 2003

BHAVESH M. MEHTA
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600